

Recombinant Murine IL-12
Catalog # PBG10186**Specification**

Recombinant Murine IL-12 - Product Information**Recombinant Murine IL-12 - Additional Information****Description**

IL-12 is a potent regulator of cell mediated immune responses and it induces IFN- γ production by NK and T cells. It is produced by activated monocytes/macrophage cells, B lymphocytes and connective tissue type mast cells. Among its biological activities IL-12 promotes the growth and activity of activated NK, CD4+ and CD8+ cells and induces the development of IFN- γ producing Th1 cells. Recombinant murine IL-12 is a 75.0 kDa heterodimeric glycoprotein consisting of disulfide-linked 35 kDa (p35) and 40 kDa (p40) subunits (506 total amino acid residues).

Biological Activity

Assay #1: The **ED₅₀** was determined by the stimulation of IFN-gamma production by murine splenocytes co-stimulated with IL-18 is < 0.1 ng/ml, corresponding to a specific activity of $> 1 \times 10^7$ units/mg.

Assay #2: Determined by its ability to stimulate the proliferation of 2D6 cells. The expected ED₅₀ is ≤ 0.1 ng/ml, corresponding to a specific activity of $\geq 1 \times 10^7$ units/mg.

Authenticity

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin

Endotoxin level is < 0.1 ng/ μ g of protein (< 1 EU/ μ g).

Protein Content

Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage

-20°C

Precautions

Recombinant Murine IL-12 is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Murine IL-12 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Recombinant Murine IL-12 - Images